

Things *We Find Important

* Courtney, Shawn, Julie, Martin, Vikki, Jacob, Geronimo, Giada, Avi, Ty, Leslie, Ji, Mark, Britney

Planetary Diversity

- Mass will be crucial
- Forward simulations and retrieval is needed to test and design our planned experiments.
- e.g. could develop hypotheses, e.g. Condensate sequence as a function of semi-major axis.
- Simulate yields for a diversity of planets.

Habitability

- Ocean detection is key, surface mapping is key.
- Need time-dependent, broad-wavelength observations
- Need to quantify mapping requirements.
- Study of false positives for habitability.
- Develop database of what has been done! Journal Club?

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Biosignatures

- Understanding the planet in the context of its environment
- Bridging astronomy and planetary system science.
- Need to develop a flow chart to discuss desired measurements and the sequence of attack (like a conceptual DRM).
- ...Or a pyramid for observations as a function of number of targets.
- Part of this is a need to understand the relative “ease” of observations.
- OWA is an issue that needs to be studied for planetary census
- Need the NIR for its extra molecules (false positives, environmental context multiple bands)
- Need multiple bands for improved retrieval
- Need discussion on complementarity of observations techniques (direct imaging, transit spectroscopy, high-resolution spectroscopy).